



FINAL

Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting 155

16 August 2011

Community Restoration Advisory Board (RAB) Members in attendance:

John Gee, Alice Pilram, Dale Smith, Martha Walters

Department of the Navy and Regulatory Agency RAB Members in attendance:

James Sullivan (Navy), Remedios (Medi) Sunga (Department of Toxic Substances Control [DTSC])

Other Navy and Regulatory Staff and Consultant Representatives in attendance:

Lora Battaglia (Navy)
Jessica Beck (Tetra Tech EM Inc. [Tetra Tech])
David Clark (Navy)
Pete Coutts (Shaw Environmental and Infrastructure, Inc. [Shaw])
Brian Holmgren (Shaw)
Danielle Janda (Navy)
Radhika Majhail (Department of Toxic Substances Control [DTSC])
Yohji Ono (Tetra Tech)
Mark Somerville (Shaw)
Tommie Jean Valmassy (Tetra Tech)

Public Guests

None

Welcome Remarks and Introductions

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the August RAB meeting for Former Naval Station Treasure Island (NAVSTA TI). The meeting was held at the Pavilion by the Bay (Building 291) on Treasure Island (TI). Mr. Sullivan thanked attendees who participated in the optional site tour the hour before the meeting. He also noted the meeting handouts are available on the back table, including copies of the agenda (Attachment A), which was also mailed and emailed to RAB members. Mr. Sullivan initiated a round of introductions. He noted that Pete Bourgeois has resigned from Shaw Environmental and Infrastructure, Inc. and is no longer working on the NAVSTA TI project. He stated that John Baur is taking over as project manager for Shaw at TI. Mr. Baur has worked on NAVSTA TI projects in the past. Mr. Baur had a schedule conflict for this RAB meeting, but will attend the October RAB meeting.

TRVT-4403-0000-0031

Also during introductions, Mr. Sullivan welcomed Martha Walters to the RAB. She will be representing ARC Ecology. Dale Smith (RAB member) asked Ms. Walters how she had previously been involved at NAVSTA TI. Ms. Walters said she worked on the NAVSTA TI project representing the Treasure Island Development Authority (TIDA) on behalf of the San Francisco Redevelopment Agency for more than 7 years. She said she has not been working on the project for the past 8 years.

Medi Sunga from DTSC introduced herself, and introduced Radhika Majhail. Ms. Majhail is the DTSC Public Participation Specialist for the TI project. Mr. Sullivan noted the Navy worked with Ms. Majhail on the public meeting for the Site 27 Proposed Plan, held earlier in the summer.

Because there were several new people in the audience, a round of introductions was conducted of all those in attendance.

- Pete Coutts is the Shaw Operations Manager for NAVSTA TI, and he is new to the project
- Mark Somerville is the Shaw licensed Radiation Safety Officer (RSO), and he noted he is new to the company and the project
- Brian Holmgren is the Shaw Technical Manager for NAVSTA TI
- Dave Clark is the Navy's Lead Remedial Project Manager (RPM)
- Lora Battaglia is the Navy RPM for Sites 27, 31, and 33
- Danielle Janda is the Navy RPM for Sites 21, 24, and 32
- Jessica Beck is the Tetra Tech Project Lead for NAVSTA TI
- Yohji Ono is the Tetra Tech Project Manager for Site 12
- Tommie Jean Valmassy is the Tetra Tech Community Relations Manager

Public Comment and Announcements

Mr. Sullivan invited public comment, noting there is also time at the end of the meeting for additional public comment. There was no public comment at this time.

Treasure Island/Yerba Buena Island Property Transfer Update and Finding of Suitability to Transfer

Mr. Sullivan provided his regular RAB meeting update on the status of property transfer, including the Finding of Suitability to Transfer (FOST) (Attachment B). There has been no transfer of property from the Navy to TIDA. However, the Navy leases large portions of NAVSTA TI to TIDA. Mr. Sullivan reviewed the major actions that need to occur before actual transfer of property, including:

- Completion of FOST 3
- Completion of one addendum to FOST 1 and 2
- Finalization of the Memorandum of Agreement between the Navy and TIDA

- Concurrence of final documents by the Secretary of Defense in Washington, D.C.

Mr. Sullivan said the Navy also must reach three environmental milestones for the initial transfer. Those three environmental milestones are the (1) Building 233 Final Status Survey, (2) Record of Decision (ROD) for Site 21, and (3) Remedial Action Completion Report for Site 33. The initial transfer of property will occur sometime in 2012, and will include the property included in FOST 1, 2, and 3. Mr. Sullivan added there may also be a separate transfer of land on Yerba Buena Island (YBI) related to the construction of the new eastern span of the Bay Bridge, likely to occur before the end of 2011. He added certain portions of the land on YBI are needed by the California Department of Transportation (Caltrans) for bridge construction. Ms. Smith asked if it is property on the eastern side of YBI that will be transferred for bridge construction. Mr. Sullivan said it will be the on and off ramps on both the eastern and western sides. He stated that there will be new ramps built on the eastern side, and upgrades to the ramps on the western side.

Mr. Sullivan said that beyond FOSTs 1, 2, and 3, as environmental work is completed in other areas, that property will be ready for transfer and will also go through the FOST process. He asked for any questions; there were none.

Field Activities and Access Update

Mr. Sullivan introduced Brian Holmgren (Shaw) to present the field activities updates (Attachment C). Mr. Holmgren said Shaw is not currently conducting much fieldwork, but he will provide updates on some of the documents being prepared in support of upcoming fieldwork. The most recent fieldwork was the second quarter of groundwater monitoring at Sites 21, 24, and 32, which was completed in July. Samples were collected from 35 wells at Site 21, 52 wells at Site 24, and two wells at Site 32. Mr. Holmgren said the third quarter of groundwater sampling will take place in late September or early October.

Mr. Holmgren said the Site 24 Treatability Study Phase 2 Report was submitted as draft to the regulatory agencies for review on July 28, and comments are due August 26. Phase 3 is the upcoming work for the Treatability Study. That field work will address residual contamination along the southern portion of Site 24. Shaw is currently incorporating agency comments on the work plan.

Ms. Smith asked if any groundwater monitoring is conducted at Site 12, and if it is conducted on a regular and ongoing basis. Mr. Sullivan said groundwater is collected at Site 12. Yohji Ono (Tetra Tech) said groundwater is collected at Sites 6 and 12 under a combined groundwater monitoring program. Samples are collected at Site 6 annually and at Site 12 on a semi-annual basis.

Martha Walters (RAB member) asked when the Navy and Shaw expect to receive the groundwater results from Site 21. Mr. Holmgren said the data is currently being analyzed. For Site 21, Shaw will conduct additional groundwater sampling to complete four quarters, and then will produce a report for Site 21.

Mr. Holmgren said Shaw will also collect soil gas samples at Sites 21 and 24. Shaw is preparing an Internal Draft Work Plan Addendum for the soil gas sampling event. The plan includes 26 sampling locations with 11 potential step-out locations if necessary at Site 21, and eight sampling locations at Site 24. Field activities are planned to begin in October.

Mr. Holmgren said Shaw is currently working on the Internal Draft Remedial Action Work Plan for Sites 31 and 33. The document covers sampling and removal of the existing stockpile at Site 31 and excavation at Sites 31 and 33. Mr. Holmgren explained the Base Realignment and Closure [BRAC] Cleanup Team (BCT) will review the draft after the Navy reviews the internal draft. The field work is scheduled to begin in late November or early December.

Mr. Holmgren noted the Site 33 Explanation of Significant Differences (ESD) was signed and distributed in May, and a public notice of the signed ESD and availability appeared in the *San Francisco Chronicle*. Mr. Sullivan added the ESD is the document that allowed the Navy to incorporate the work at Site 33 into the existing ROD for Site 31.

Mr. Holmgren moved on to the update for Building 233 (Attachment D). He said Shaw submitted a Debris Disposal Summary Package to the California Department of Public Health. The document summarizes the post-remediation radiological characterization of the Building 233 material. The Navy and Shaw are currently awaiting state comments on the data package.

In addition, Shaw is incorporating Navy Radiological Affairs Support Office (RASO) comments on the Building 233 Work Plan for Characterization, Remediation, and Final Status Survey activities. The draft document is scheduled to go to the regulatory agencies for review near the end of August. Ms. Smith asked if RAB members will receive a copy of that draft document, and Mr. Holmgren confirmed they will.

Mr. Holmgren moved on to the update on the Site 12 field activities (Attachment E). The Site 12 Characterization, Remediation, and Final Status Survey Plan is on hold while the overall site remediation strategy is being reviewed. The other document Shaw is drafting related to Site 12 fieldwork is the demolition work instruction for Buildings 1123, 1319, and 1321. Mr. Holmgren noted those buildings are located along Westside Drive within Site 12. The demolition work

instruction is scheduled to go to the regulatory agencies for review at the end of August.

Mr. Holmgren discussed the path forward for work at Site 12. He noted that, as of July 12, Shaw was not granted a license reciprocity extension by the State of California to continue conducting radiological field work. Shaw has therefore subcontracted a state-licensed contractor, Philotechnics, to take control of radiological sites at NAVSTA TI. Shaw will continue to seek a license with the state but will continue to subcontract until that license is received. Mr. Holmgren noted that public health and safety control of the fence lines around radiologically controlled areas is continuing. The controls include dose rate surveys as well as visual inspections and any needed fence repairs.

Mr. Holmgren said Shaw is in the work plan phase for field activities at Bigelow Court, which is also within Site 12. The work plan addresses scanning and demolition of buildings. It is being reviewed by the Navy and will be submitted to the regulatory agencies in September. Field work at Bigelow Court is expected to begin in December 2011. Ms. Walters asked what is meant by "scanning." Mr. Holmgren explained there are specific procedures for the buildings to be scanned to detect the presence of radiological contamination, and the work plan describes the scanning techniques that will be used so that it can be approved.

Ms. Sunga asked if the building demolition Mr. Holmgren referenced is the buildings that were mentioned earlier that will be demolished along Westside Drive, or if these buildings are at Bigelow Court. Mr. Holmgren said in addition to the three buildings previously mentioned along Westside Drive (Buildings 1123, 1319, and 1321), the Navy is also planning to demolish two buildings on Bigelow Court (Buildings 1101 and 1103). Ms. Smith asked if the contamination in that area is polycyclic aromatic hydrocarbons (PAH). Mr. Sullivan said originally polychlorinated biphenyls (PCB) were identified as the contamination driving work in the area, and a time-critical removal action was conducted in 2000 to address PCBs, and secondarily PAHs. During that work in 2000 some additional debris was observed that was not part of that removal action. The Navy conducted further investigation and has been planning a non-time critical removal action to address the debris. During the investigation, it was discovered debris extends beneath Buildings 1101 and 1103. As a result, these two buildings at Bigelow Court will be demolished, and then the debris beneath them can be excavated. Because radium-226 was identified in the solid waste disposal areas of Site 12, the state recommended conducting radiological scans of debris at Bigelow Court during the work. He added there is no indication this area is radiologically impacted, but it will be scanned to be conservative.

John Gee (RAB member) asked for clarification regarding Shaw not receiving a reciprocity extension for conducting radiological field work. Mr. Sullivan

explained Shaw was conducting radiological field work under a federal license issued by the Nuclear Regulatory Commission. The state concluded Shaw also needs to operate under a state license. The reciprocity allowed Shaw to continue to operate under its federal license for a limited period of time. The time it takes to receive a state license is lengthy, and the reciprocity expired before Shaw was able to obtain a state license. As a result, Shaw subcontracted a company (Philotechnics) that already holds a state license to conduct the radiological work. Shaw is continuing with non-radiological work while it pursues its own state license.

Mr. Holmgren ended his presentation with a figure showing the current, unchanged public access and restricted areas on Perimeter Road.

Site 12 Draft Remedial Investigation Report Q&A

Mr. Sullivan introduced the next topic, the Site 12 Draft Remedial Investigation (RI) Report (no handout). Mr. Sullivan explained the RAB has heard several presentations related to the document, so a presentation is not being given at this RAB meeting. However, since the document is currently out for regulatory agency and RAB review, there is time during the meeting to answer questions to help the RAB with their review of the document. Mr. Sullivan noted some RAB comments were received during the June RAB meeting and the contractor is addressing them. Mr. Sullivan introduced Yohji Ono (Tetra Tech) as the consultant Project Manager for the RI, and he is available to answer questions.

Ms. Smith said she will provide written comments, but will not be able to submit them by the current deadline. Ms. Smith said her one additional comment is a question about Building 345. It was listed as an historic incinerator located within Site 12. However, she has not seen it labeled on any map. Her concern is the incinerator could contribute heavy metals to the soil. She added that if the area where this incinerator was located will be used for future housing, then she would like to comment that it should be cleaned up. Ms. Walters asked where at Site 12 Building 345 had been located. Mr. Sullivan said he did not know off-hand, but the Navy has excellent historical photographs marked with building numbers, as well as public works and other historical maps and they will look for that information and note the location in the final document. Mr. Sullivan noted comments were originally due this Friday, August 19. However, DTSC requested an extension, so the comment period is extended to August 26.

Site 21 Draft Soil Gas Investigation Work Plan and Proposed Plan Preview for Sites 21 and 32

Mr. Sullivan introduced Danielle Janda (Navy) to present the next topic. She explained her presentation will focus on the Sites 21 and 32 Proposed Plan/Draft Remedial Action Plans (PP/Draft RAP), (Attachment F), but she will also give a brief update about the soil gas investigation at Site 21. Ms. Janda began with the

PP/Draft RAP for Site 32. She noted the location and the former uses of the site, which included training and storage. The RI report was completed in 2008, and the primary contaminants of concern were identified as PCBs; diesel and motor oil; lead and arsenic; dichlorodiphenyltrichloroethane (DDT) and other pesticides; and dioxins. The Navy, with concurrence from the regulatory agencies, completed a removal action under the Toxic Substances Control Act (TSCA) because PCBs are regulated under TSCA. The Navy and their contractors excavated 13,500 tons of soil and removed two buildings, collected confirmation samples, and then backfilled the excavation with clean soil. After the removal action, it was determined that there was no further risk to human health under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). As a result, the PP/Draft RAP recommends no further action. The PP/Draft RAP document will be issued sometime in September and will document more of the site history and how the Navy reached the no further action recommendation.

Ms. Janda moved on to Site 21 (part of the same attachment). Site 21 was an oil/water separator, but it was also used to clean aircraft parts. Most of the contamination at the site was probably caused by the dip tank used to clean the parts because chlorinated ethenes were used. Therefore, the contamination of concern at Site 21 is chlorinated ethenes in groundwater. Ms. Janda explained the contaminant is tetrachlorinated ethenes (PCE), which degrade to trichlorinated ethene (TCE), then dichlorinated ethene (DCE), and then to a single chlorine, until eventually it degrades to ethene, which is harmless. However, PCE and its degradation, or daughter, products are harmful to human health.

Ms. Janda showed a map of the plume from 2002, before treatment, and a map after two phases of the treatability study. Ms. Janda explained the treatability study involved adding substrate and microorganisms into the plume to degrade the contamination. The first phase was done from 2005 to 2007, and the second phase was done from 2008 to 2010. Ms. Janda noted the level of chlorinated ethenes was 3,000 micrograms per liter ($\mu\text{g/L}$), and is now down to 25 $\mu\text{g/L}$, so the treatability study has been successful. Those levels are below industrial cleanup standards, so there is no risk to humans if the site is used for industrial or recreational use. The Navy's recommended final remedy for groundwater is to implement institutional controls. The land use controls will prohibit residential reuse unless mitigation is put in place at the site.

Ms. Janda said the Navy and their contractors are currently conducting a soil gas investigation at Site 21. Preliminary soil gas samples were collected and the results were elevated above screening levels, so additional samples will be collected to delineate the extent of soil gas contamination. That information will

determine the boundaries for the institutional controls. The contractors are planning to do the soil gas sampling fieldwork in October or November. The dates for the Site 21 PP/Draft RAP are still being established, but there will be an associated public meeting that will be advertised.

Site 24 Phase II Draft Treatability Study Report/ Phase III Work Plan

Ms. Janda moved on to an update on Site 24 (Attachment G). A Phase II Treatability Study report was issued a few months prior to this meeting. There is a groundwater plume contaminated with chlorinated ethenes, caused by a dry cleaning facility that used to be at the site. The Navy conducted a pilot study from 2003 to 2004, then an expanded Phase I Treatability Study from 2004 to 2007, and then an expanded Phase II Treatability Study from 2008 to 2010. Each phase of the study had four stages:

- (1) System installation (installing the wells and extraction system),
- (2) Direct injection (injecting microorganisms and substrate into groundwater to enhance the bioactivity that breaks down the contamination)
- (3) Recirculation (taking water from one well and putting it into another to ensure good distribution of microorganisms), and
- (4) Monitoring (evaluating progress for 4 to 6 months).

Ms. Janda showed a figure of the original plume as delineated in the 2002 RI report (slide 4). She indicated the source area, which is where the pilot study was focused. Ms. Janda said three injection wells and three extraction wells were installed for the pilot study. She noted on the next figure that the original plume decreased significantly after the pilot study. The Navy and their contractor, Shaw, then did an expanded Treatability Study to test treatment in an area with lower concentrations of contamination. Ms. Janda noted it can be more difficult to treat the lower concentrations. In this expanded study, Shaw installed 104 bio-barrier wells to make sure the injections of substrate did not expand outside of the site boundary. They also installed 26 extraction wells and 17 injection wells. Ms. Janda showed another figure of the plume after the expanded Phase I Treatability Study, noting it was successful but there was some rebound of contamination in the source area of the plume.

Shaw and the Navy then conducted a third round, Expanded Phase II Treatability Study. Thirty bio-barrier wells were used along with 20 extraction wells and 15 injection wells. Ms. Janda noted the plume size was greatly reduced. However, there is one area with contaminant levels that are above industrial cleanup goals, so the area is not suitable for reuse. She noted the other areas with lower concentrations are suitable for industrial use, but not for residential use. However, in the City's current land use plan, part of Site 24 is

planned for residential reuse. Therefore, the Navy will conduct a third phase of the Treatability Study to address the elevated levels of contamination in the southern boundary of Site 24. The Navy will address the areas with higher concentrations and the source area using direct injection and recirculation. The Phase III work is expected to occur from October 2011 through February 2013. Ms. Janda said the Phase II Treatability Study report is currently in agency review. The work plan for Phase III was already reviewed by the agencies, and the Navy and Shaw are currently incorporating comments.

Ms. Smith said it appears that the plume moved beyond the bio-barrier wells. Ms. Janda said the plume did move some, and that is another reason the Navy will be treating it further in that particular area. Ms. Smith asked about the depth for the contamination that moved beyond the bio-barrier wells and the depth of the bio-barrier wells themselves. Ms. Sunga said she had just been looking at the RI report for the site and recalls the bio-barrier wells are about 30 feet deep and the wells along the shore are 40 or 45 feet deep. Ms. Smith asked why the bio-barrier wells did not work, and noted that they should have worked because they are filled with the microorganisms and substrate and because of pressure. Ms. Janda explained that there is no pressure after the injection of microorganisms and substrate. She also noted that the contaminant plume may flow through the treatment and degrade somewhat, but not completely, which is why there is some breakdown, but it is not complete since dichlorinated ethane and vinyl chloride do not degrade as quickly as tetrachlorinated ethane and trichlorinated ethene.

Ms. Smith said the non-native bacteria used seem to be working very well. Ms. Janda said the Navy and Shaw will conduct quarterly groundwater monitoring at Site 24 and at Site 21, which will allow them to keep track of where the contamination is.

Upcoming Documents and Field Schedule

Mr. Sullivan introduced Jessica Beck (Tetra Tech) to present the Document Tracking Sheet (Attachment H) and the Field Schedule Sheet (Attachment I). Ms. Beck noted there are several documents being issued as draft within the next 60 days, all of which are highlighted in yellow on the handout, as well as several documents where comments are due within the next 60 days, highlighted in blue on the handout. Ms. Beck noted the dates for the Site 12 RI and reminded the RAB that the comment period will be extended. Mr. Sullivan said he will send an e-mail specifically confirming the new due date for comments.

Ms. Beck noted the only upcoming event in the next 60 days for fieldwork is groundwater sampling at Site 6, which is scheduled for early September.

RAB Meeting Minutes

Mr. Sullivan asked for comments on the draft June 2011 RAB meeting minutes. Ms. Smith provided comments. The minutes were accepted as final pending incorporation of Ms. Smith's comments.

Co-Chair Announcements

Alice Pilram (RAB community co-chair) stated there are several social events coming up at NAVSTA TI. There is a Dragon Boat Festival on September 17. There is also the annual TI Music Festival, being held on the Great Lawn on October 15 and 16.

BRAC Cleanup Team Update

Mr. Sullivan stated since the last RAB meeting the Navy held a BCT meeting in July and August. The meeting included standard items, including a transfer update, field activities summary, and upcoming documents and their schedules. There was also a discussion at both meetings about radiological field work. The next BCT meeting will be the first Wednesday in September.

Mr. Clark noted there will be a transition in the Regional Water Quality Control Board representative on the BCT. Ross Steenson will be leaving the TI project, and a new representative, still to be named, will join the team.

Other Public Comments and Announcements

Mr. Sullivan noted that Nathan Brennan usually gives an update on the Citizen's Advisory Board (CAB) activities, of which he is also a member, but Mr. Brennan was not available for this meeting. Mr. Sullivan noted there is currently no schedule for upcoming CAB meetings because it has reached some of its milestones, but he expects another meeting will be scheduled again in the future.

Future Meeting Agenda Items

There were no specific requests for future agenda items. Mr. Sullivan said the Navy will include whatever topics are timely on the RAB agenda.

Mr. Sullivan noted the schedule for the next meeting and the next RAB conference call are on the back of the agenda (Attachment A). The meeting was adjourned.

August 2011 RAB Meeting Handouts [attached when minutes are finalized]

- Attachment A: NAVSTA TI RAB Meeting No. 154 Agenda, 16 August 2011
- Attachment B: Property Transfer & FOST Update, 16 August 2011
- Attachment C: Field Activities, 16 August 2011
- Attachment D: Building 233, 16 August 2011
- Attachment E: Site 12, 16 August 2011

- Attachment F: Site 32 and Site 21 Updates, 16 August 2011
- Attachment G: Site 24 Bioremediation, 16 August 2011
- Attachment H: Document Tracking Sheet, 16 August 2011
- Attachment I: Field Schedule, 16 August 2011

NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
Tuesday, 16 August 2011
7:00 PM.
Casa de la Vista Building 271
Treasure Island
MEETING NO. 155

- 6:00 – 7:00 **Optional Site Tour** (meet at Casa de la Vista)
- 7:00 – 7:05 **Welcome Remarks and Introductions**
Lead: James Sullivan, Navy Co-Chair
- 7:05 – 7:10 **Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair
- 7:10 – 7:15 **Treasure Island/Yerba Buena Island Property Transfer Update**
Lead: James Sullivan, Navy Co-Chair
- 7:15 – 7:25 **Field Activities and Access Update**
Lead: John Baur, Shaw E & I
- 7:25 – 7:35 **Site 12 Draft Remedial Investigation (RI) Report Q&A**
(*comments due 8/19/11*)
Lead: Yohji Ono, Tetra Tech EMI
- 7:35 – 7:45 **Site 21 Draft Soil Gas Investigation Work Plan**
Lead: Danielle Janda, Navy Project Manager
- 7:45 – 7:55 **Proposed Plan Preview: Sites 21 and 32**
Lead: Danielle Janda, Navy Project Manager
- 7:55 – 8:05 **Site 24 Phase II Draft Treatability Study Report/ Phase III Work Plan**
Lead: Danielle Janda, Navy Project Manager
- 8:05 – 8:15 **Upcoming Documents and Field Schedule**
Lead: Jessica Beck, Tetra Tech EMI
- 8:15 – 8:20 **RAB Meeting Minutes**
Lead: James Sullivan, Navy Co-Chair
- 8:20 – 8:25 **Co-Chair Announcements**
Lead: Alice Pilram, Community Co-Chair
- 8:25 – 8:30 **BRAC Cleanup Team Update**
Lead: James Sullivan, Navy Co-Chair
- 8:30 – 8:35 **Other Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair

8:35 – 8:40 **Future Meeting Agenda Items**
Lead: Navy and Community Co-Chairs

8:40 **Closing Remarks/End of Meeting**
Break/Informal Discussion for 30 minutes after the meeting
This is an opportunity to informally discuss issues

Next Regular Meetings: No September 2011 Meeting

7:00 pm Tuesday, 18 October 2011
Casa de la Vista, Treasure Island

No November 2011 Meeting

7:00 pm Tuesday, 20 December 2011
Casa de la Vista, Treasure Island

Next Treasure Island Citizen's Advisory Board (CAB): See the web site for latest dates and times for future meetings: <http://www.sfgov.org/treasureisland>

Next Interim RAB Community Member Conference Call: **(Last Tuesday of pre-RAB month)**

Tuesday, 27 September 2011, 7:00 pm.

Call-In Number: 1- 866-822-0121

Participant Code: 1122026

(Note: This same number will be used for future conference calls)

Next BCT/RPM/Project Team Meeting: 10:00 am. Wednesday 7 September 2011, Tetra Tech EMI, Oakland

Navy BRAC Web Site: <http://www.bracpmo.navy.mil> (click on map for Treasure Island)

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BRAC Program Management Office



Naval Station Treasure Island Property Transfer & FOST Update

Restoration Advisory Board
And BRAC Cleanup Team
August 16, 2011



Property Transfer & FOST Update



- Property transfer (conveyance) of FOSTed property to the Treasure Island Development Authority (TIDA) has not yet occurred, but is expected to occur in phases beginning in early 2012.
- Portions of former Naval Station property have been previously transferred to the U.S. Department of Labor for the Job Corps Center on TI, to the U.S. Coast Guard on YBI, and by the Federal Highway Administration (FHWA) to Caltrans. The remaining Navy property is to be transferred to TIDA.
- The Navy currently leases large portions of the remaining Navy property on TI and YBI to TIDA, and TIDA subleases property for housing, recreation, businesses, special events and other uses.



Property Transfer & FOST Update



- Major actions required for initial property conveyance from Navy to TIDA:
 - Navy completion of FOST 3 (aka 2010 FOST)
 - Navy completion of Addendum to 2006 FOSTs (FOSTs 1 & 2)
 - Finalization of Memorandum of Agreement
 - Final documents concurrence by the Office of the Secretary of Defense (OSD)
 - Navy environmental milestones
 - Complete Building 233 Radiological Final Status Survey Report
 - Complete CERCLA Site 21 Final Record of Decision (ROD)
 - Conduct Remedial Action at Site 33 and complete Remedial Action Completion Report (RACR)

3



Property Transfer & FOST Update



- Initial Property Conveyance in 2012 will consist of property subject to:
 - 2006 Treasure Island and Yerba Buena Island FOSTs (1 & 2)
 - FOST 3
 - Addendum to 2006 FOSTs (1 & 2)
- There may be a separate conveyance in late 2011 of property for improvements to the Bay Bridge ramps on YBI.
- No Early Transfers planned at this time.
- Future property conveyances will occur as necessary environmental response actions are completed and property is found suitable for transfer. The specific schedules for the necessary environmental actions are reflected in the Site Management Plan (SMP).

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Naval Station Treasure Island



Field Activities

**August 16, 2011
RAB Meeting**



Groundwater Monitoring at Sites 21, 24, and 32



- Second quarter groundwater monitoring activities were completed on the 14th of July.
- Thirty five (35) wells were sampled at Site 21. Fifty two (52) wells were sampled at Site 24. Two (2) wells were sampled at Site 32.
- Shaw received the analytical results of the second Quarter sampling in early August and is analyzing the data.
- The Third quarter sampling event will start in Late September/Early October.



Site 24 Treatability Study



Phase 2 Treatability Report

- Draft document was sent to the agencies for review July 28. Comments expected August 26.

Phase 3 Work Plan

- Agency comments were received on July 26. Shaw is addressing the comments and revising the plan to incorporate the results of the 2nd Quarter groundwater monitoring event .
- Phase 3 work will address residual contamination mainly along the southern site boundary

3



Sites 21 and 24 Soil Gas Sampling



Sites 21 & 24

To address BCT comments regarding soil gas at the sites, the Navy will conduct Soil Gas sampling activities at Sites 21 and 24. Twenty six (26) locations at Site 21 and eight (8) locations at Site 24 are currently will be sampled.

The Internal Draft Work Plan Addendum is being reviewed by the Navy. The Plan will be submitted to the agencies in August.

Field activities are scheduled to start in October.

4



Site 31 and 33 Steps Forward



- Internal Draft Removal Action Work Plans were modified to include additional radiological characterization of planned excavations and the existing Site 31 stockpile. The Work Plans will be sent back to the Navy for review on August 19.
- Field activities are scheduled to start late November or early December.

5




Site 33 Explanation of Significant Differences




Final ESD was signed and distributed May 30th.

Public notice was placed in the SF Chronicle in July 2011


6




Naval Station Treasure Island


Building 233

August 16, 2011 RAB Meeting



Building 233


- Shaw prepared and submitted (June 13, 2011) a debris disposal summary package to CDPH, which summarizes post remediation, radiological characterization of the Building 233 debris for the State's review. The Navy is awaiting comments from the State.
- Shaw revised the Building 233 Work Plan for Characterization, Remediation, and Final Status Survey activities to address RASO comments, and reorganized the document to include Characterization and Remediation Phases before completing the Final Status Survey. This document is scheduled to go draft late August 2011.



Footprint of Building 233




3



Naval Station Treasure Island



Site 12

August 16, 2011
RAB Meeting



Site Documents



Site 12 Characterization and Final Status Survey

Plan:

- On hold pending review of overall remediation strategy

Buildings 1123, 1319, & 1321 Demolition Work

Instruction:

- Draft Work Instruction Scheduled for late August 2011



Site 12 Steps Forward



- Shaw was not granted a reciprocity extension by the State as of July 12. To facilitate continuation of field work Shaw has partnered with Philotechnics, a State licensed subcontractor. Philotechnics has taken over the control of the radiological sites at TI.
- Shaw continues to seek a State license but will subcontract until the license has been granted.
- The weekly Public Health and Safety control of the fence lines is continuing. This includes dose rate surveys as well as fence repairs and visual inspections.

3



Bigelow Court Look Ahead



Work Plan:



- Draft document scheduled for September 2011
- Addresses scanning and demolition of buildings within Site 12 solid waste disposal area
- Will make room for expanded fieldwork

Field Mobilization:

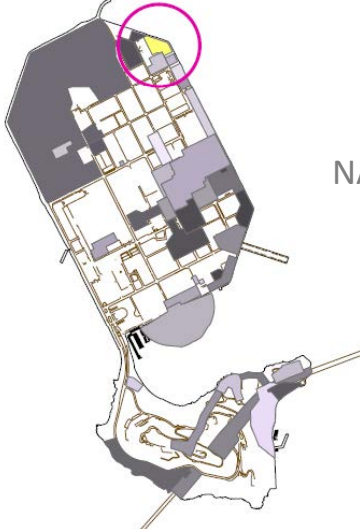
- Field activities are scheduled to start December 2011.

4





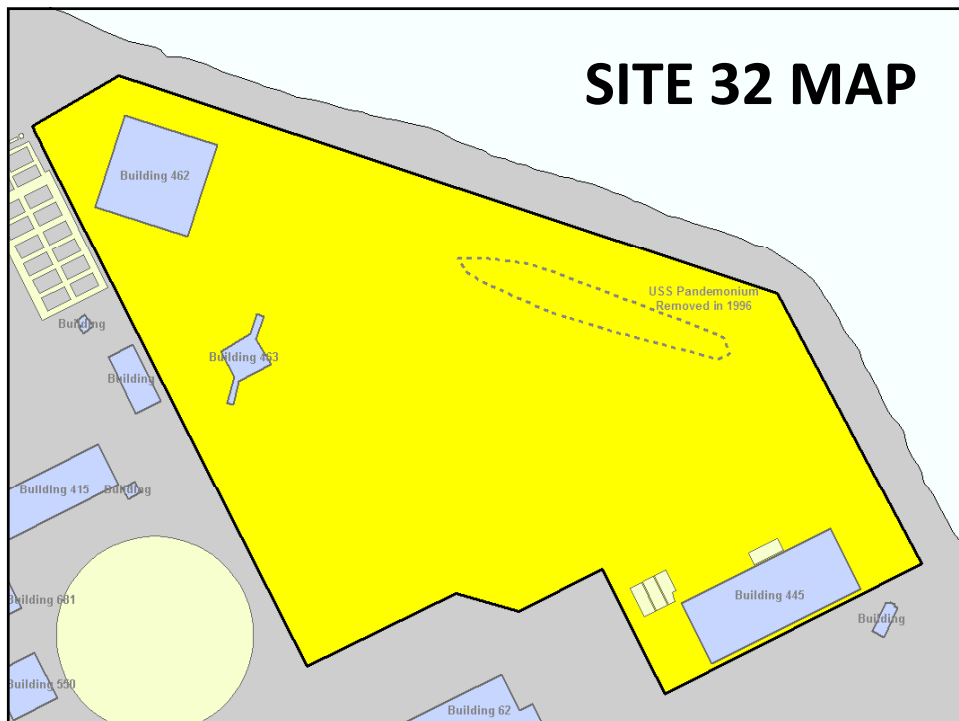
SITE 32

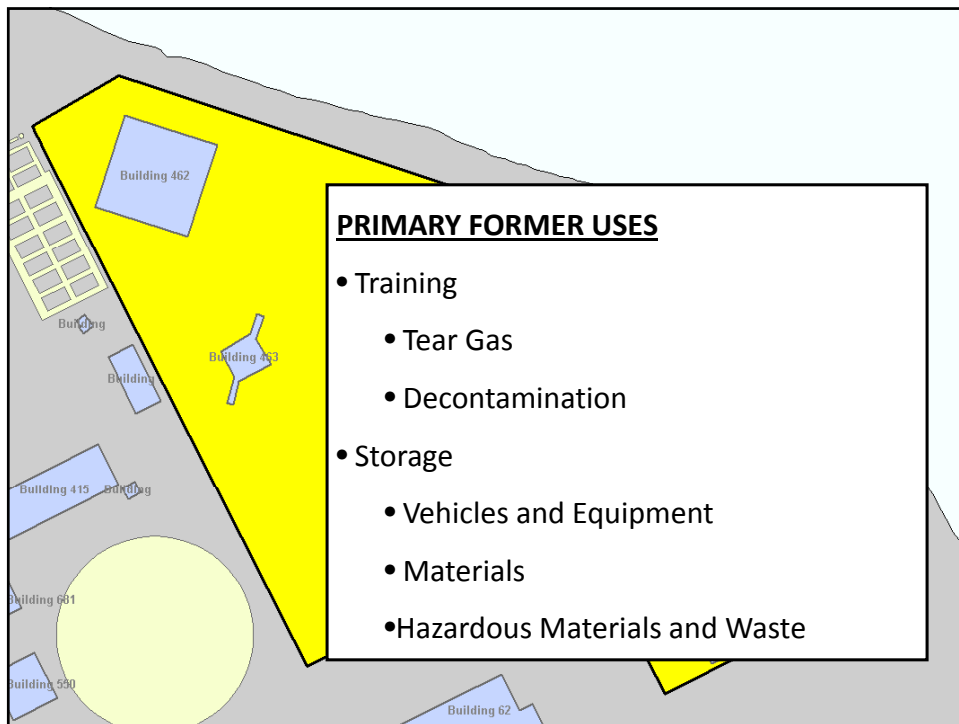




FORMER TRAINING AND STORAGE AREA

NAVAL STATION TREASURE ISLAND

Presented by Danielle Janda
August 16, 2011



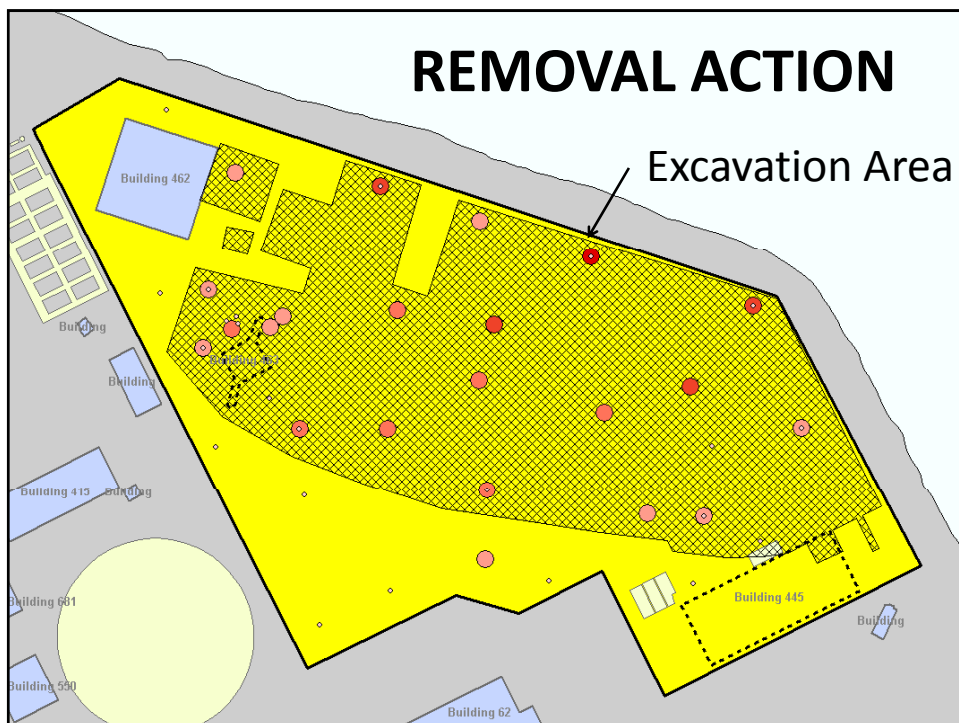
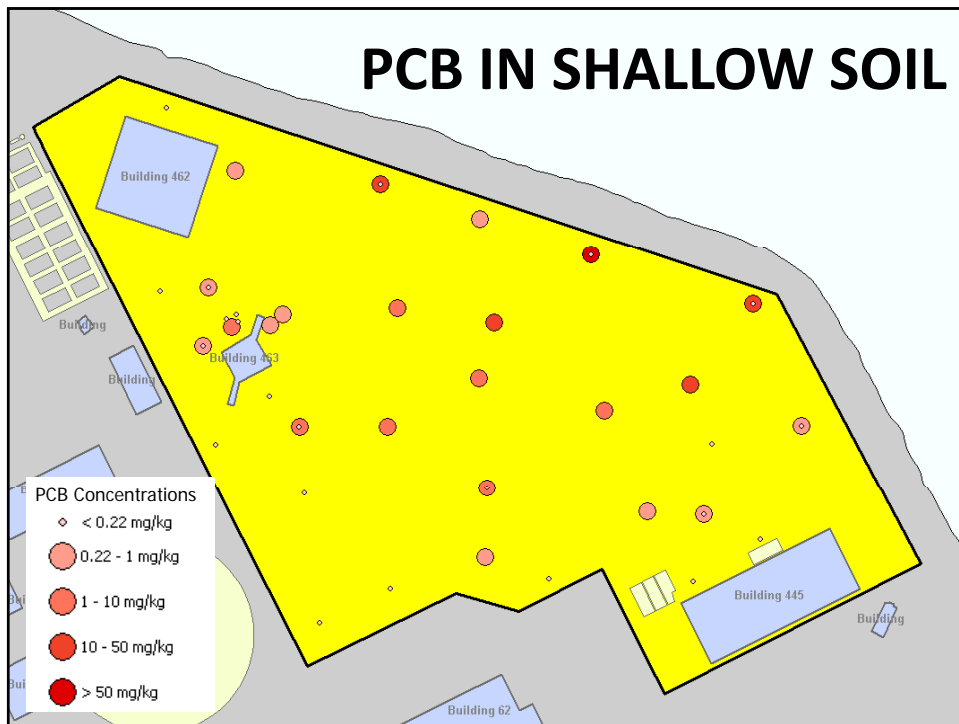




CONTAMINANTS OF CONCERN

- PCBs
- Diesel and Motor Oil
- Lead and Arsenic
- DDT and other pesticides
- Dioxins

4





FINAL REMEDY



After the removal action a risk assessor completed a screening evaluation of the remaining contaminant concentrations and recommended

NO FURTHER ACTION

7



PUBLIC PARTICIPATION



PUBLIC COMMENT PERIOD

SEPTEMBER – NOVEMBER 2011

PUBLIC MEETING

SEPTEMBER/OCTOBER 2011

8



SITE 21

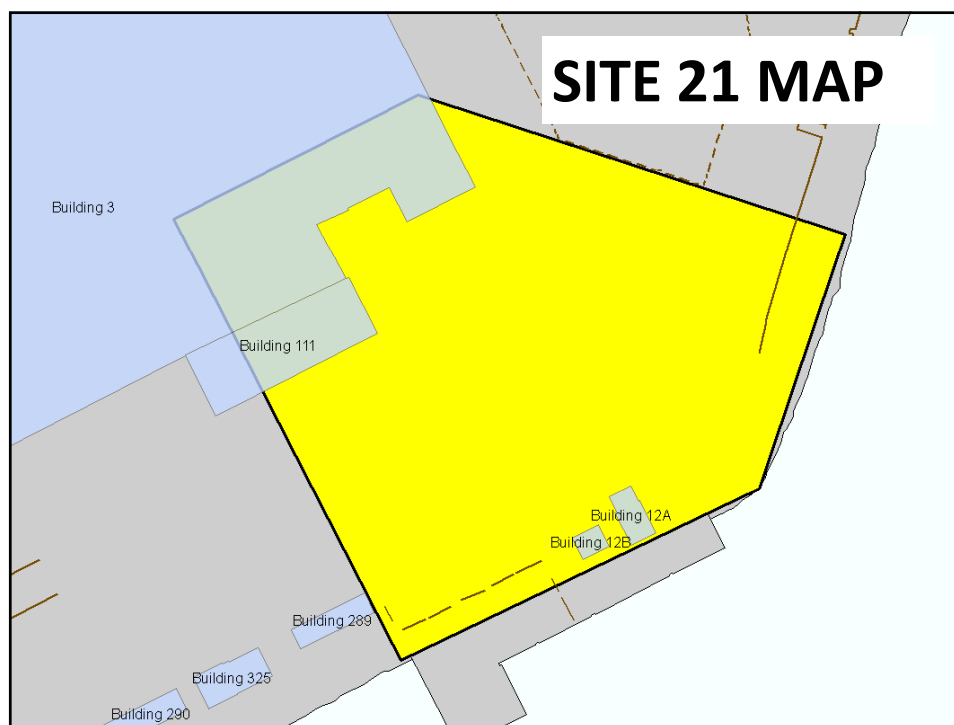


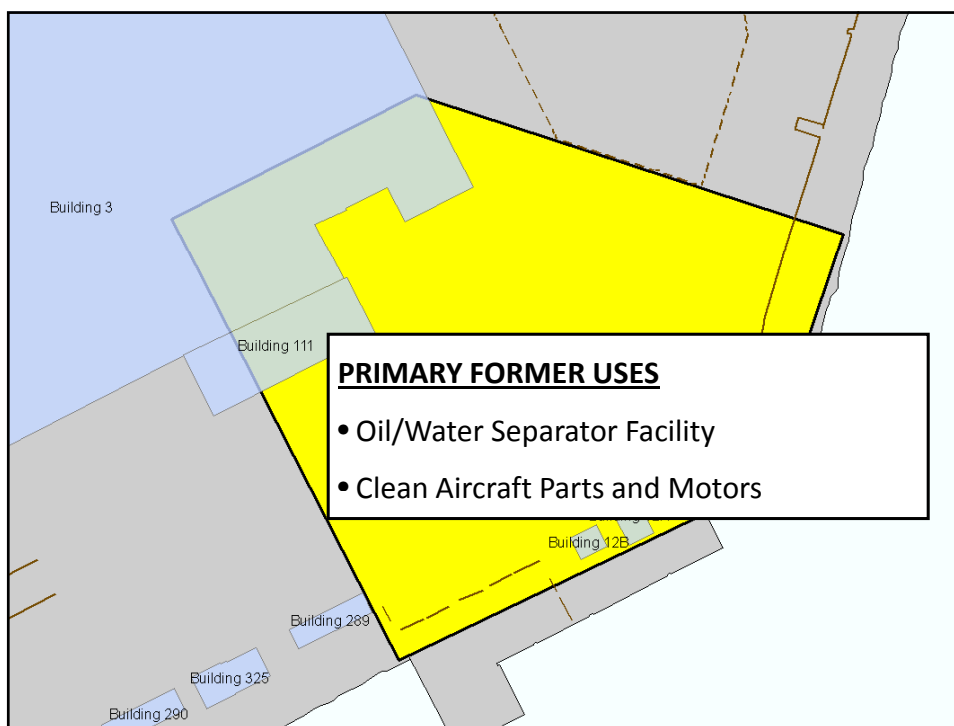
VESSEL WASTE OIL RECOVERY AREA


NAVAL STATION TREASURE ISLAND

Presented by Danielle Janda


9







CONTAMINANTS OF CONCERN

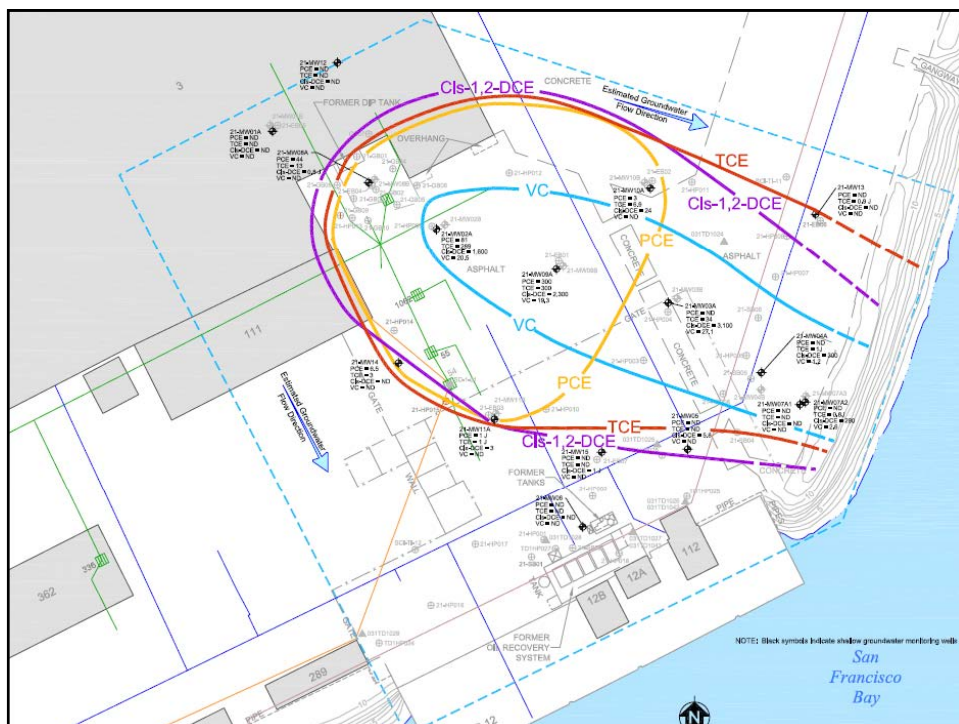



Chlorinated Ethenes

- PCE – Tetrachlorinated Ethenes
- TCE – Trichlorinated Ethene
- DCE – Dichlorinated Ethene
- VC – Vinyl Chloride


ClC(Cl)=C(Cl)Cl
ClC(Cl)=CCl
ClC(Cl)=C
ClC=C

12





TREATABILITY STUDY

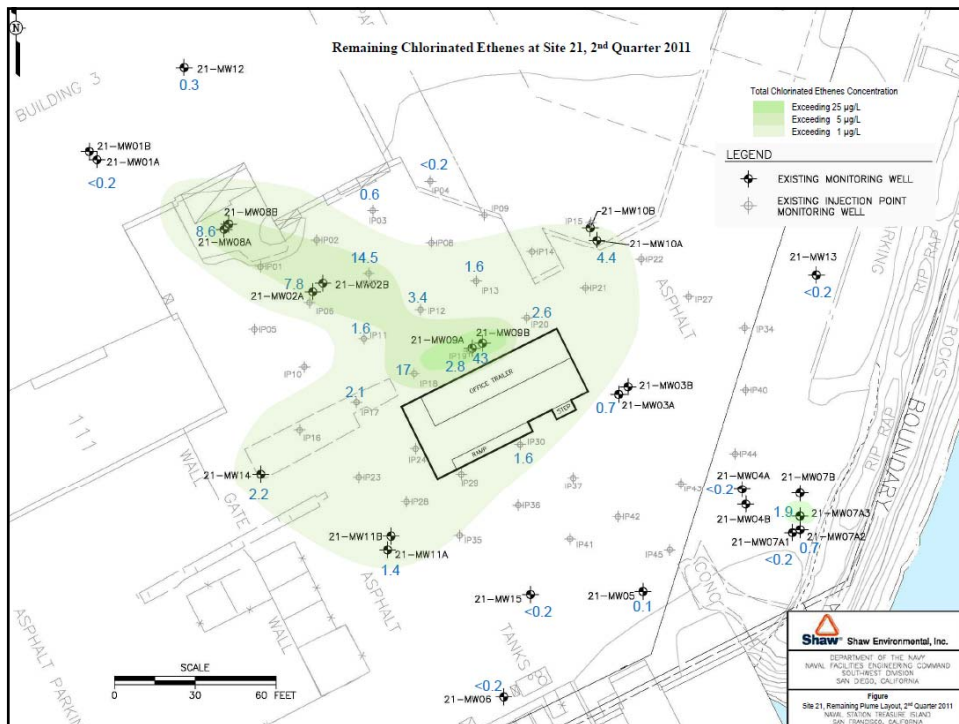


Augmentation of Bioactivity to Degrade Contaminants into Ethene and Ethane

Phase 1: 2005 to 2007

Phase 2: 2008 to 2010

14





FINAL REMEDY



In order to protect human health and the environment
the Navy will implement

LAND USE CONTROLS

A soil gas investigation is being completed to assist
selecting controls that will mitigate exposure to
remaining contaminants

16



PUBLIC PARTICIPATION



PUBLIC COMMENT PERIOD

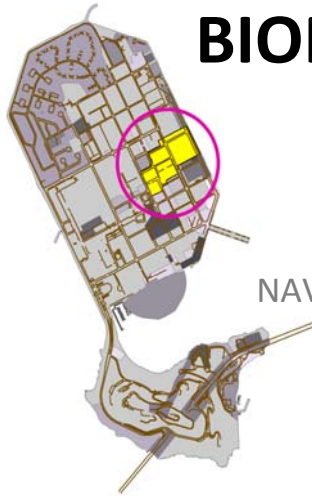
OCTOBER – NOVEMBER 2011

PUBLIC MEETING

OCTOBER/NOVEMBER 2011



SITE 24



BIOREMEDIATION

DRY CLEANING FACILITY

NAVAL STATION TREASURE ISLAND

Presented by Danielle Janda



PAST TREATMENT



PILOT TREATABILITY STUDY

May 2003 — March 2004



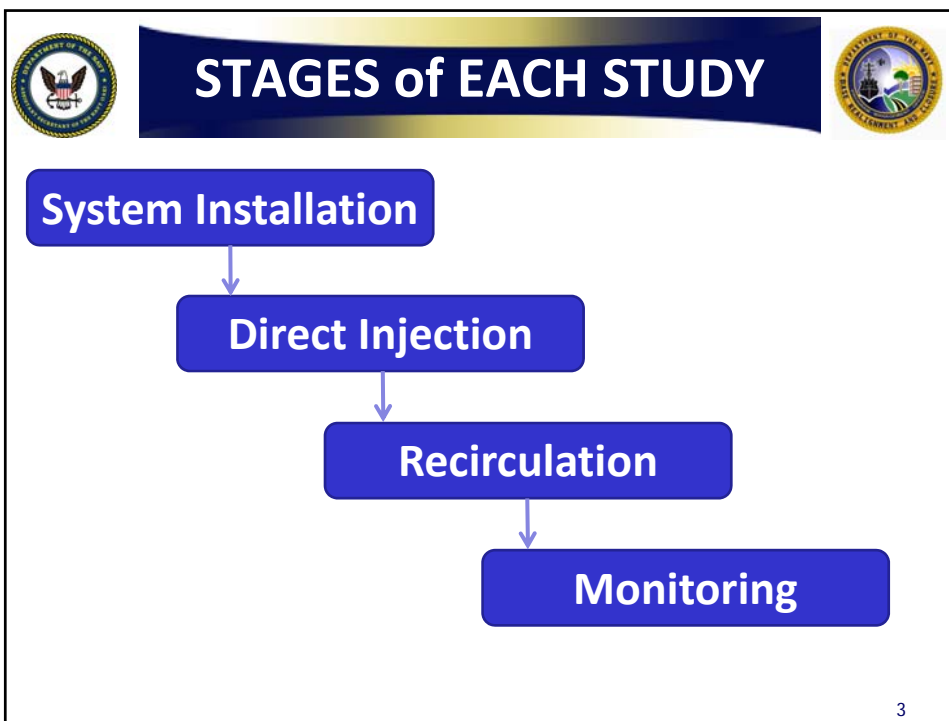
EXPANDED TREATABILITY STUDY PHASE 1

November 2004 — May 2007

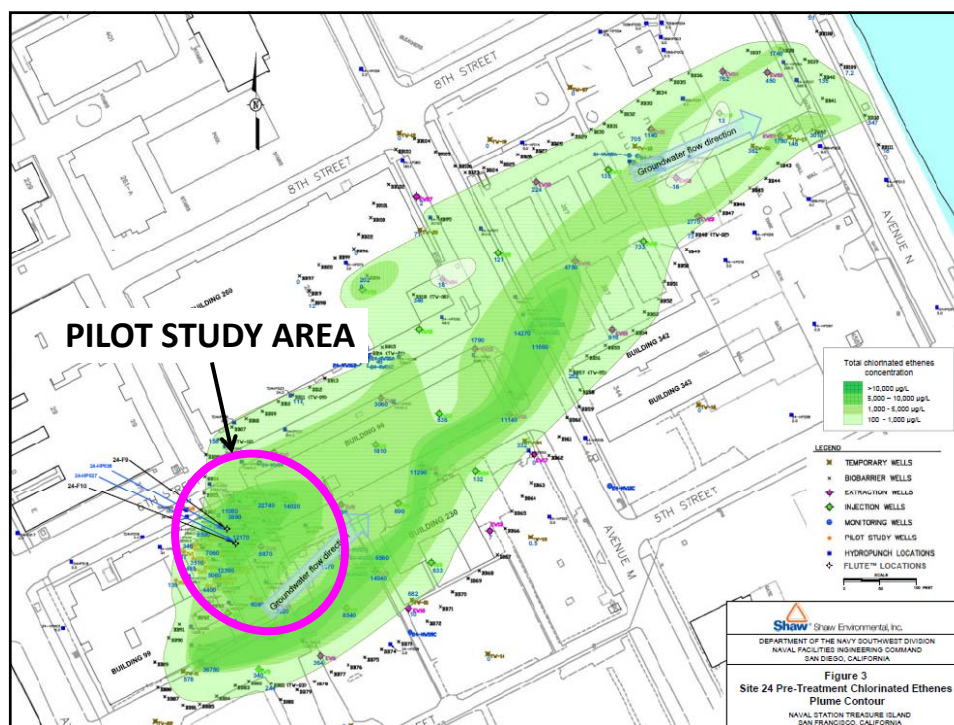


EXPANDED TREATABILITY STUDY PHASE 2

June 2008 — October 2010



3

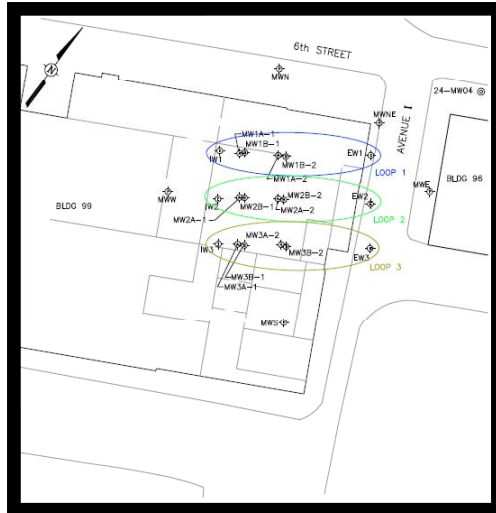




PILOT STUDY

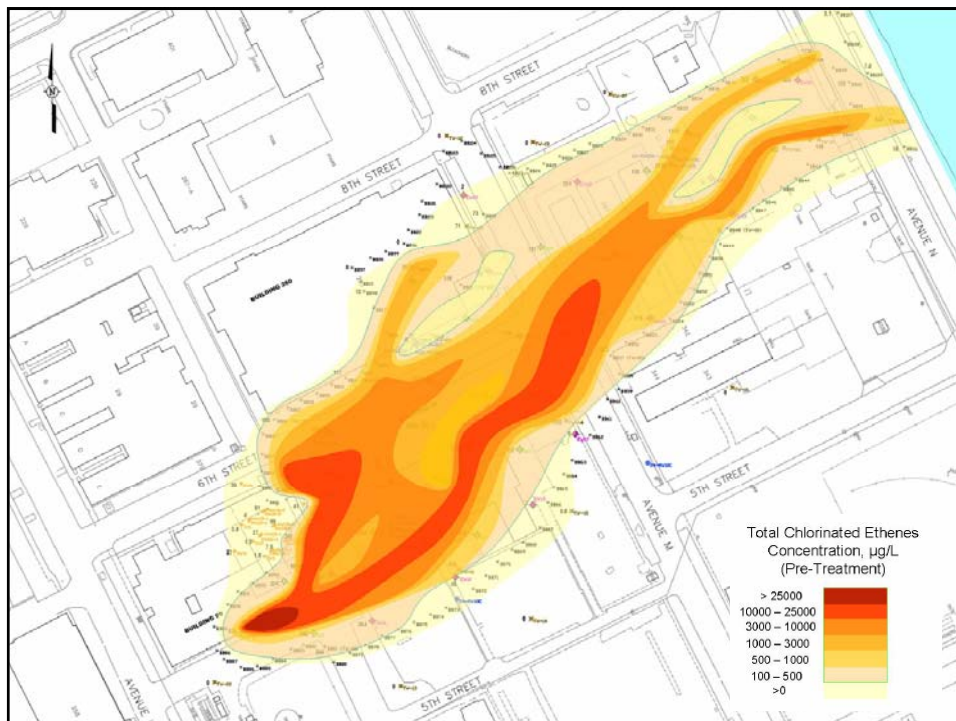


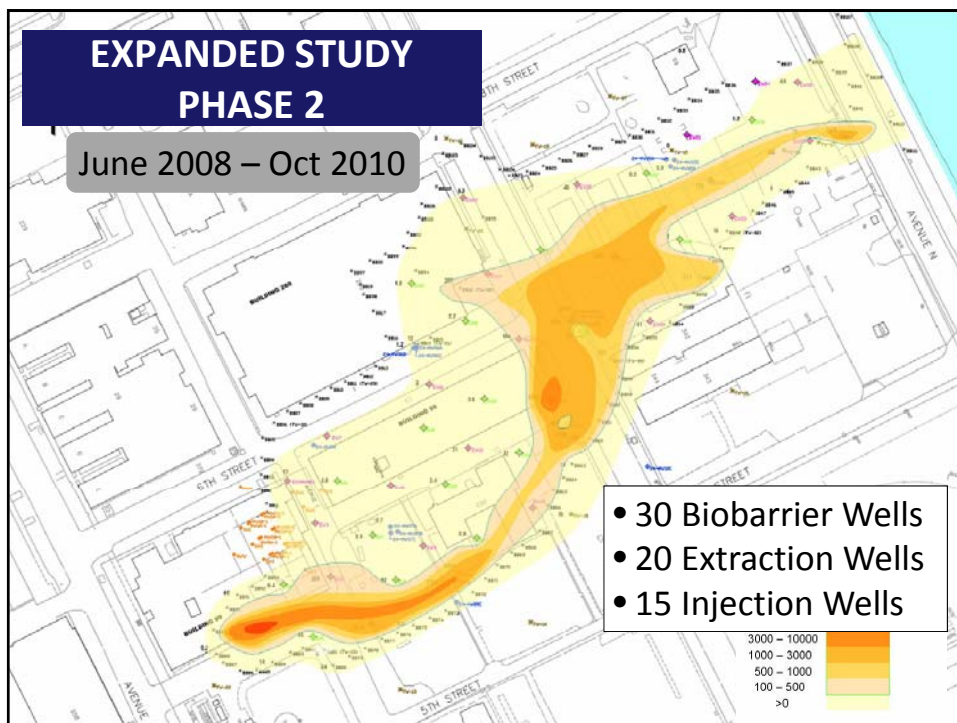
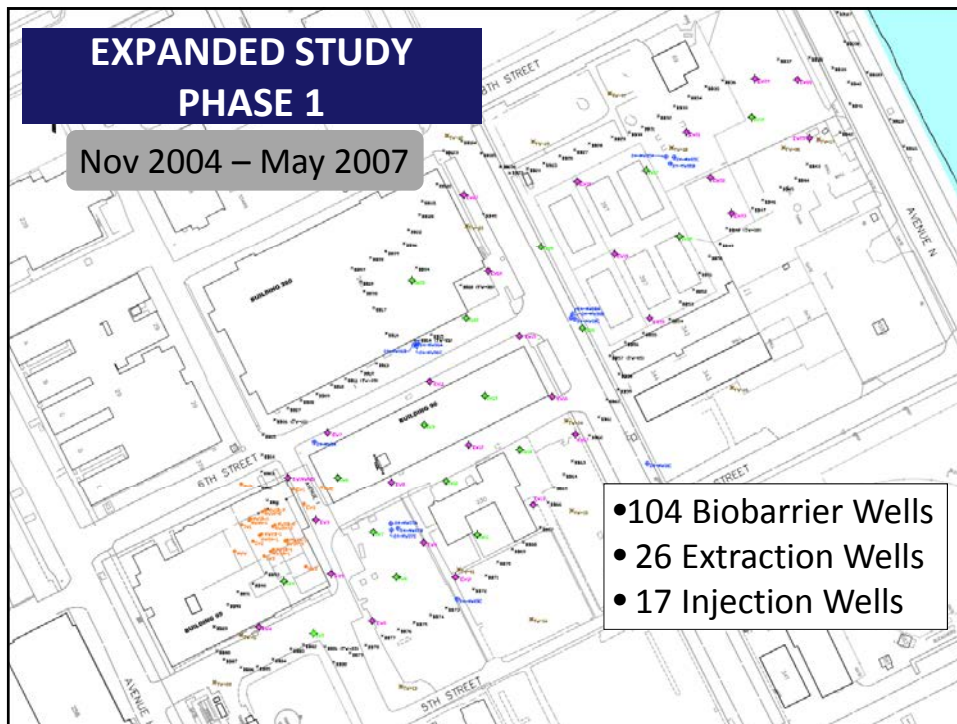
May 2003 – March 2004

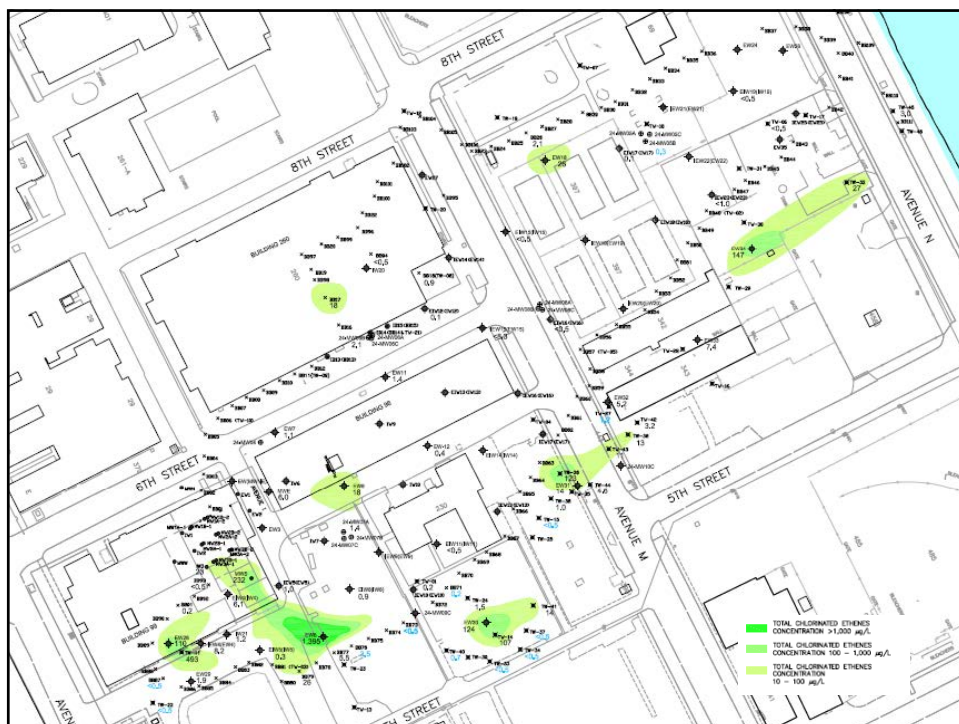



- Focus on the Source Area
- 3 Injection and 3 Extraction Wells
- 18 Monitoring Wells

5











PHASE 3

October 2011 – February 2013

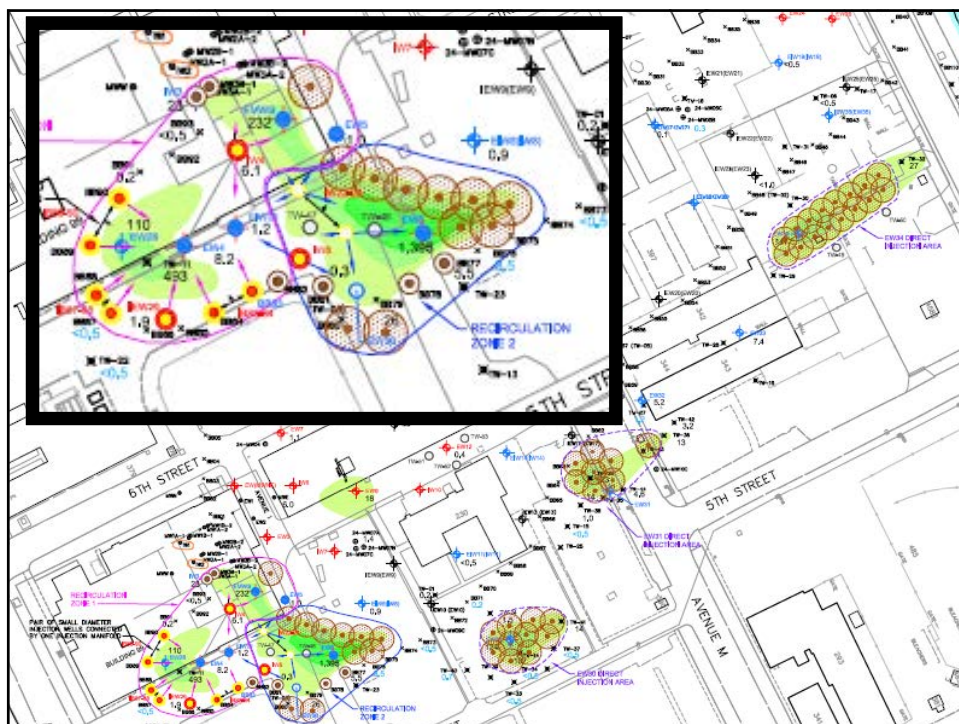



Purpose

Address the Southern
Boundary of Site 24




10





CURRENT DOCUMENTS



Treatability
Study
Report
Phase 1 & 2

- In Agency Review

Phase 3
Work Plan

- Responding to
Agency
Comments

12

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
August 2011 - January 2012**

			INTERNAL DRAFT				DRAFT							RTC		INTERNAL FINAL			FINAL									
Item	Document Title & Information	C/O/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Priority Level	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies	Comments										
						Date Due	DTSC	WATER BOARD	EPA	TIDA	RAB								OTHER									
Shaw Group																												
	Site 32 Post Construction Summary Report for PCBs in Soil	FZN1	05/11/10, 10/31/10	✓ ✓	02/21/11	✓	03/21/11	✓	04/20/11	✓		✓				05/18/11	✓	06/22/11	✓	06/24/11	✓	07/05/11	✓	07/13/11	✓	DTSC (4/13), EPA (4/13), WB (4/15), RAB (4/25), TIDA (4/29)		
	RPM: Danielle Janda																											
	PM: Pete Bourgeois																											
1	Building 233 Characterization, Remediation and Final Status Survey Work Plan	010	08/31/10, 09/30/10, 10/11/10, 03/11/11, 07/14/11	✓ ✓ ✓ ✓ ✓	11/25/10, 03/04/11, 03/16/11, 08/12/11	✓ ✓ ✓	08/26/11		09/23/11							10/05/11		10/12/11		10/19/11		10/26/11		11/02/11				
	RPM: Anthony Konzen																											
	PM: Pete Bourgeois																											
2	Site 24 Treatability Study Report (Phase II)	FZN1	04/19/11	✓	05/04/11	✓	07/28/11	✓	08/29/11							09/17/11		10/01/11		10/15/11		10/22/11		10/29/11				
	RPM: Danielle Janda																											
	PM: Pete Bourgeois																											
3	Sites 31/33 Remedial Action Work Plan (RAWP)	FZN9	10/15/10, 11/22/10, 01/10/11, 08/19/11	✓ ✓ ✓ ✓	10/29/10, 11/10/10, 09/02/11	✓ ✓ ✓	09/23/11		10/21/11							11/04/11		11/11/11		11/18/11		11/28/11		12/05/11		Rewriting RPP per MARSSIM guidelines: schedule will be accelerated when possible.		
	RPM: Lora Battaglia																											
	PM: Pete Bourgeois																											
4	Site 12 Bigelow Court NTCRA Work Plan	FZN9	11/22/10, 12/23/10, 01/24/11	✓ ✓ ✓	12/14/10, 04/30/11, 08/01/11	✓ ✓ ✓	09/02/11		09/30/11							10/17/11		10/28/11		11/11/11		11/18/11		11/30/11		Final date dependent on comment durations		
	RPM: Anthony Konzen																											
	PM: Pete Bourgeois																											
5	Site 24 Treatability Study Work Plan (Phase III)	FZN1	03/23/11	✓	04/07/11	✓	06/06/11	✓	07/27/11	✓	✓	X	✓			08/17/11		08/31/11		09/07/11		09/14/11	09/21/11		EPA (6/16), WB (7/13), TIDA (7/27), DTSC			
	RPM: Danielle Janda																											
	PM: Pete Bourgeois																											
6	Sites 21/24 Soil Gas Investigation Work Plan	:	06/13/11	✓	07/07/11	✓	08/19/11		09/09/11							09/22/11		09/29/11		10/06/11		10/13/11		10/20/11		Schedule will be accelerated when possible.		
	RPM: Danielle Janda																											
	PM: Pete Bourgeois																											
Tetra Tech EM Inc.																												
7	Site 24 PP/RAP	FZND	01/28/11	✓	TBD		TBD		TBD								TBD		TBD		TBD		TBD		TBD	On hold pending results of Phase III treatability study.		
	RPM: Danielle Janda																											
	PM: Jean Michaels																											
8	Finding of Suitability to Transfer (FOST) 3	001	08/09/10	✓	09/02/10	✓	09/28/10	✓	11/03/10	✓	✓	✓	✓				12/08/10	✓	01/05/11	✓	01/21/11	✓	02/02/11	✓	TBD	DTSC (10/26), EPA (11/1), WB (11/8), TIDA (11/2). Final document on hold pending discussions with the State.		
	RPM: David Clark																											
	PM: Marcie Rash																											
	Island Times Newsletter #17	001	08/31/10	✓	04/05/11	✓	04/12/11	✓	04/26/11	✓	X	✓	✓					NA		NA		05/14/11	✓	07/09/11	✓	07/20/11	✓	DTSC (4/25), EPA (4/26), TIDA (4/29)
	RPM: Jim Sullivan																											
	PM: Marcie Rash																											

Naval Station Treasure Island
Environmental Cleanup Program
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August 2011 - January 2012

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						Date Due	DTSC	WATER BOARD	EPA	TIDA	RAB	OTHER														
Tetra Tech EM Inc. (Continued)																										
9	FOST Addendum (to 2006 TI/YBI documents)	001	04/22/11	✓	TBD	TBD	TBD							TBD		TBD		TBD	TBD	TBD	On hold pending discussions with State.					
	RPM: David Clark																									
	PM: Marcie Rash																									
10	2011 Site Management Plan (SMP)	001	03/24/11	✓	04/15/11	✓	04/27/11	✓	05/27/11	✓	X	X	✓			09/16/11		09/30/11	09/23/11	10/07/11	10/21/11	DTSC (5/3), TIDA (5/26), EPA (6/2)				
	RPM: David Clark																									
	PM: Marcie Rash																									
11	Site 32 PP/RAP	489	05/02/11	✓	05/16/11	✓	06/13/11	✓	07/11/11	✓	✓	X	✓			07/30/11	✓	08/12/11	08/19/11	08/26/11	09/02/11	DTSC (7/6, 7/14), WB (7/11), TIDA (7/13)				
	RPM: Danielle Janda																									
	PM: Jean Michaels																									
12	Island Times Newsletter #18	001	10/13/11		10/27/11	11/06/11	11/20/11									11/30/11		NA	11/30/11	12/07/11	12/14/11					
	RPM: Jim Sullivan																									
	PM: Marcie Rash																									
Chadux Tetra Tech																										
13	Site 12 RI Report	049	03/02/11	✓	04/01/11	✓	06/10/11	✓	08/19/11								09/16/11		TBD	10/16/11	10/26/11	11/09/11				
	RPM: Anthony Konzen																									
	PM: Marcie Rash																									
14	Site 21 PP/RAP	083	04/09/10* 05/20/10**	✓ ✓	05/09/10* 11/12/10**	✓ ✓	12/16/10	✓	01/15/11	✓	✓	✓	✓			08/17/11		08/30/11	09/06/11	09/13/11	09/14/11	WB (12/28), TIDA/TICD (1/14), DTSC (1/14), RAB (1/16)				
	RPM: Danielle Janda																									
	PM: Jean Michaels																									
15	Site 27 ROD/RAP	084	08/08/11* 09/21/11**	✓	09/06/11* 10/21/11**	11/04/11	12/04/11									01/01/12		TBD	01/31/12	02/10/12	02/24/12	* Navy technical review ** Navy legal review				
	RPM: Lora Battaglia																									
	PM: Katie Henry																									
16	Well Decommissioning Letter Report	044	08/10/11	✓	08/24/11	NA	NA		NA							NA		NA	NA	NA	09/20/11					
	RPM: Tony Konzen																									
	PM: Yohji Ono																									
17	Site 21 ROD/RAP	083	09/21/11* 10/19/11**	✓	10/05/11* 11/02/11**	11/16/11	12/07/11									12/21/11		TBD	01/05/12	01/10/12	01/20/12	* Navy technical review ** Navy legal review				
	RPM: Danielle Janda																									
	PM: Jean Michaels																									
Trevet																										
	Site 30 2010 LUC Inspection and Reporting	9002	04/05/11	✓	04/18/11	✓	05/03/11	✓	06/02/11	✓	X	X	X				06/09/11	✓	NA	06/09/11	✓	06/16/11	✓	07/01/11	✓	TIDA (5/31), DTSC (6/1), EPA (6/2), WB (6/6)
	RPM: David Clark																									
	PM: Greg Alyanakian																									
18	2010 Sites 6 & 12 Annual Groundwater Report	9002	02/23/11	✓	04/08/11	✓	05/11/11	✓	06/21/11	✓	✓	X	✓				08/04/11	✓	TBD	08/08/11	✓	08/15/11	08/22/11	EPA (6/2), DTSC (6/20), TIDA (7/5), WB (7/13)		
	RPM: Tony Konzen																									
	PM: Greg Alyanakian																									
ERRG																										
19	Site 6 RI/FS Report	:	08/31/11		10/01/11	10/15/11		11/14/11									12/12/11		TBD	01/11/12		01/21/12	02/04/12			
	RPM: Tony Konzen																									
	PM: Phil Skorge																									

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
August 2011 - January 2012**

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							Date Due	DTSC	WATER BOARD	EPA	TIDA	RAB								OTHER					
CH2M Hill and Kleinfelder																									
20	YF3 Add'l Soil/Groundwater Sampling Work Plan		X027	07/26/11	✓	08/25/11	10/07/11	11/06/11							11/20/11		12/04/11		12/09/11		12/13/11		12/16/11		
	RPM: Danielle Janda																								
	PM: Eric Johansen																								

✓ Production or review of document is complete.

X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

Abbreviations:

Bldg = Building

CTO/DO = Contract task order/delivery order

DTSC = Department of Toxic Substances Control

EPA = U.S. Environmental Protection Agency

FS = Feasibility study

LUC = Land use covenant

NA = Not applicable

PCB = Polychlorinated biphenyls

PM = Project manager

PP = Proposed plan

RAP = Remedial action plan

RASO = Radiological Affairs Support Office

RI = Remedial investigation

ROD = Record of decision

RPM = Remedial project manager

SAP = Sampling and analysis plan

TBD = To be determined

TICD = Treasure Island Community Developers

TIDA = Treasure Island Development Authority

Water Board (WB) = Regional Water Quality Control Board

**Naval Station Treasure Island
Navy Field Schedule
August 2011 - January 2012**

Item	Activity & Investigation Area	DTS #	Field Dates		Navy RPM	CTO/DO	Project Manager	Field Team Lead	Complete
Shaw									
1	Non-Time Critical Removal Action <i>Site 12</i>	Doc NA	Start: Finish:	02/26/07 TBD	Tony Konzen (619) 532-0924	010	Tony Searls (509) 735-9736	Pete Bourgeois (415) 277-6983	
2	Site 31 Remedial Action <i>Site 31</i>	Doc 5	Start: Finish:	TBD TBD	Lora Battaglia (619) 532-0968	FZN9	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
3	Building 233 Debris Screening / Final Status Survey <i>Building 233</i>	Doc 2	Start: Finish:	07/26/10 TBD	Tony Konzen (619) 532-0924	010	Tony Searls (509) 735-9736	Pete Bourgeois (415) 277-6983	
Trevet									
4	Site 6 3rd Quarter Groundwater Sampling <i>Site 6</i>	Doc NA	Start: Finish:	09/08/11 09/09/11	Tony Konzen (619) 532-0924	:	Matt Fuller (858) 578-8859	Matt Fuller (858) 578-8859	
5	Site 6 4th Quarter and Site 12 Semiannual Groundwater Sampling <i>Sites 6 and 12</i>	Doc NA	Start: Finish:	12/12/11 12/16/11	Tony Konzen (619) 532-0924	:	Matt Fuller (858) 578-8859	Matt Fuller (858) 578-8859	

Abbreviations:

CTO/DO Contract task order/delivery order
DTS # The number listed corresponds to the associated documentation listed on the Document Tracking Sheet.
NA Not applicable, there is no associated documentation listed on the DTS.
RPM Remedial project manager
TBD To be determined

✓ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.